

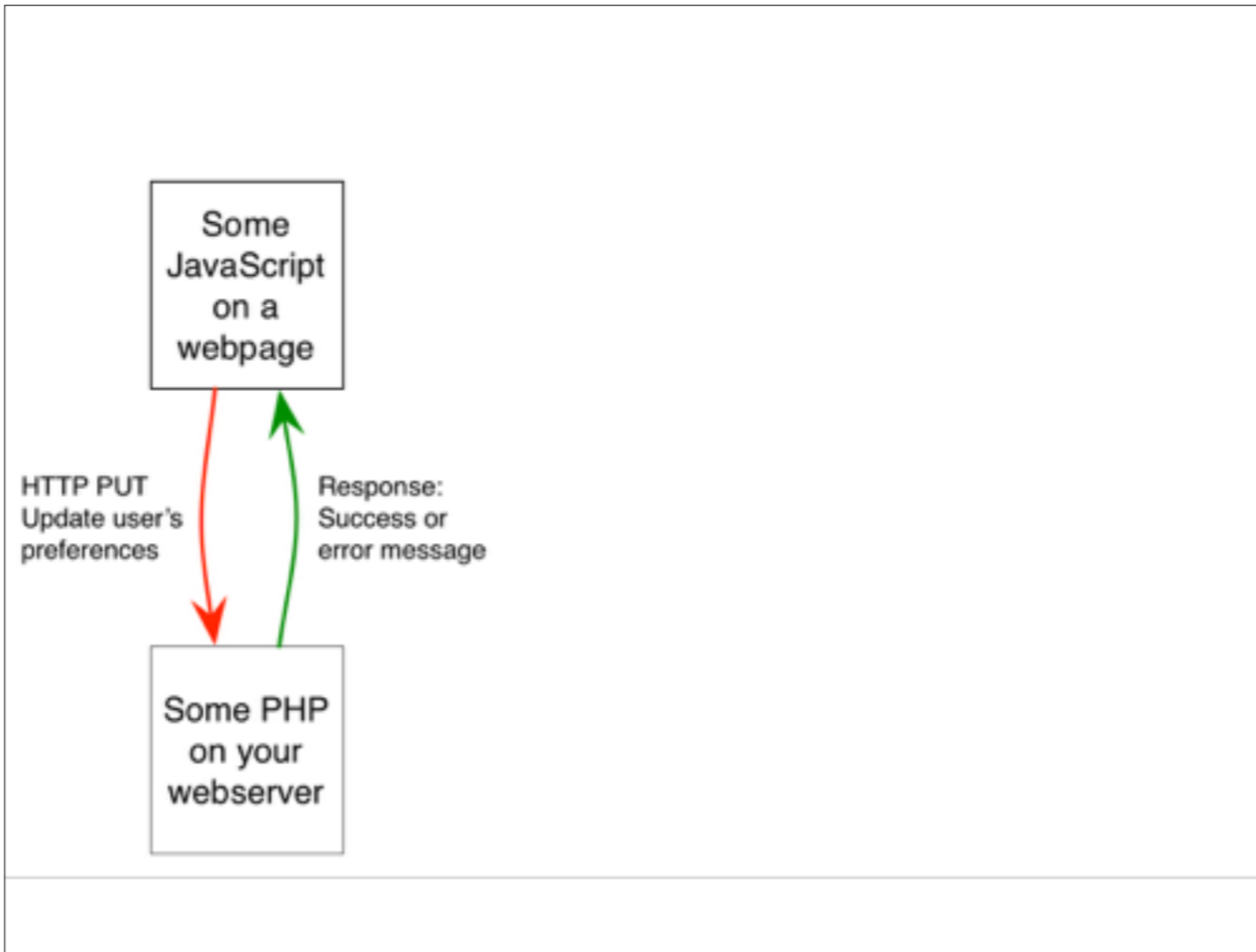
Creative Coding

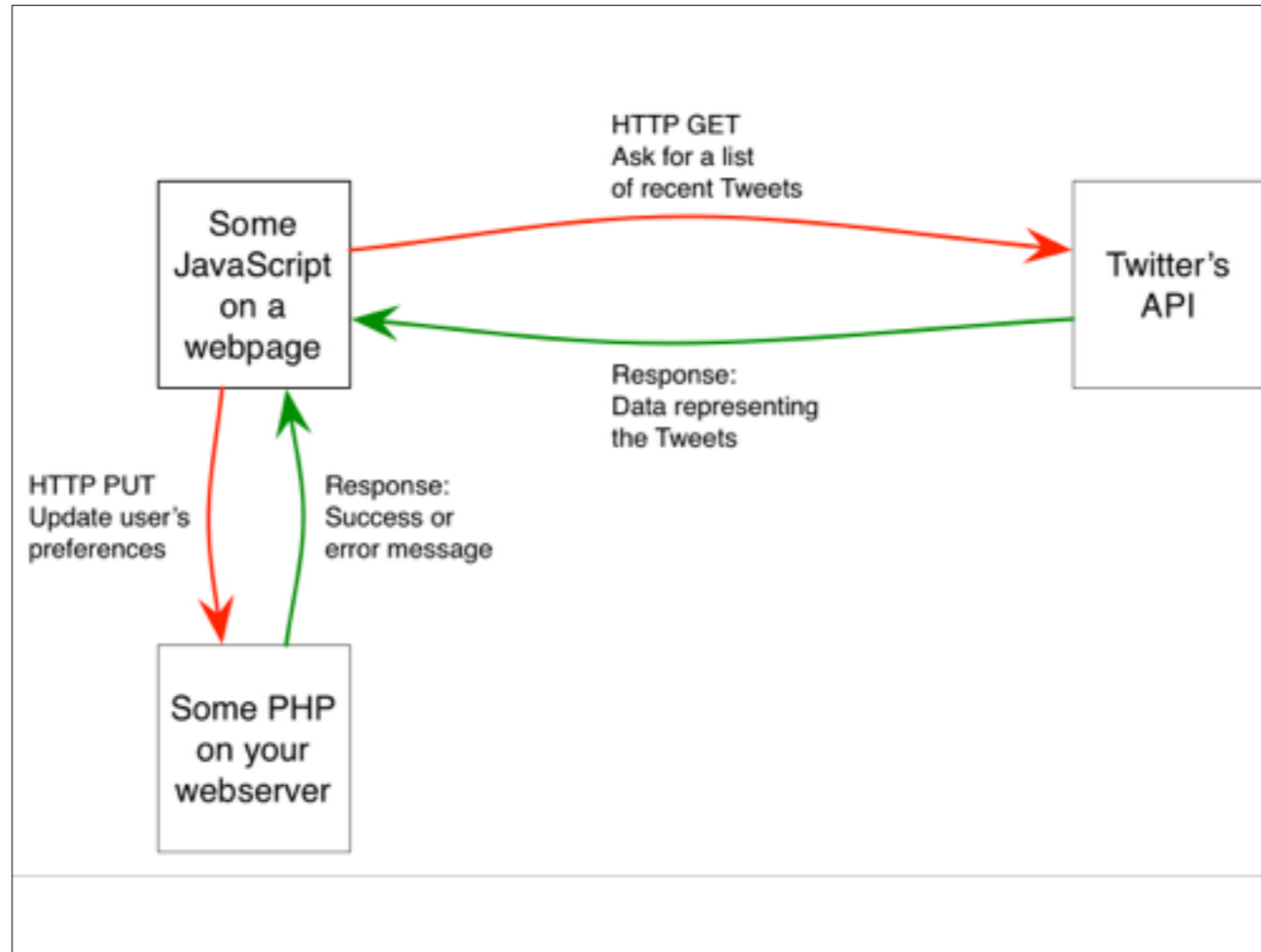
The web as a medium

Part 4: JavaScript APIs

**API:
Application
Programming
Interface**

Some
JavaScript
on a
webpage





HTTP: Hypertext Transfer Protocol

Send a request, get a response.
Response might contain HTML or an image.
Or JSON/XML/etc if it's an API.

REST: Representational State Transfer

Standard verbs for requests.

GET
POST
PUT
DELETE

retrieve
create
update
delete

Requests

Response formats

- **XML:** Extensible Markup Language
- **JSON:** JavaScript Object Notation
- And more...

Responses: XML

```
<response>
  <artist>
    <hotttnesss>1.0<hotttnesss>
    <id>ARX6TAQ11C8A415850<id>
    <name>Lady Gaga<name>
  </artist>
  <status>
    <version>4.2<version>
    <code>0<code>
    <message>Success<message>
  </status>
</response>
```

Responses: JSON

```
{  
  "response": {  
    "artist": {  
      "hotttnesss": 1.0,  
      "id": "ARX6TAQ11C8A415850",  
      "name": "Lady Gaga"  
    },  
    "status": {  
      "code": 0,  
      "message": "Success",  
      "version": "4.2"  
    }  
  }  
}
```

We used

- **Weather:** developer.forecast.io
- **GIFs:** api.giphy.com